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L1	2	("20010047419").PN.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:24
L2	11	"6510556"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:20
L3	4	"6477180"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:21
L4	2	"20010037402"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:20
L5	53	(reservat\$5 near4 (status state\$3)) with (brows\$5 web)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:32
L6	5	5 and @ad<"20000407"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:29
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L9	0	(adjust\$3 near5 (bandwidth\$3 and ((transmission\$3 send transfer) adj time))) and (reservat\$5 near4 (resource\$3 media content\$3 multimedia))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:27

3/30/07 6:34:48 PM

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L12	0	11 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:28
L13	65	((chang\$4 modif\$5 adjust\$3) near5 (bandwidth\$3 and ((transmission\$3 send transfer) adj time)))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:28
L14	0	12 and 8	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/03/30 18:28
L15	15	13 and @ad<"20000407"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:32
L16	. 1	709/219 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR .	OFF	2007/03/30 18:34
L17	0	709/232 and 5	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:33

3/30/07 6:34:48 PM Page 2

L18	0	725/93 and 5	US-PGPUB;	OR	OFF	2007/03/30 18:33
LIO	U	725/95 and 5	USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB		OH	2007/03/30 10:33
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L20	0	725/93 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:33
L21	4	709/232 and 13	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/03/30 18:33
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3/30/07 6:34:48 PM Page 3

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грьг Page 1 Benchmarking and Profiling the RSVP Protocol Ying Zhao and ...

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System and method for streaming media - US Patent 7054949

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Relevance scale

A scalable front-end architecture for fast instruction delivery

Glenn Reinman, Todd Austin, Brad Calder

May 1999 ACM SIGARCH Computer Architecture News, Proceedings of the 26th annual international symposium on Computer architecture ISCA '99, Volume 27 Issue 2

Publisher: IEEE Computer Society, ACM Press

Full text available: pdf(176.40 KB) Additional Information: full citation, abstract, references, citings, index Publisher Site terms

In the pursuit of instruction-level parallelism, significant demands are placed on a processor's instruction delivery mechanism. Delivering the performance necessary to meet future processor execution targets requires that the performance of the instruction delivery mechanism scale with the execution core. Attaining these targets is a challenging task due to I-cache misses, branch mispredictions, and taken branches in the instruction stream. To further complicate matters, a VLSI interconnect sca ...

Papers: YESSIR: a simple reservation mechanism for the Internet

Ping Pan, Henning Schulzrinne

April 1999 ACM SIGCOMM Computer Communication Review, Volume 29 Issue 2

Publisher: ACM Press

Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, references, citings

RSVP has been designed to support resource reservation in the Internet. However, it has two major problems: complexity and scalability. The former results in large message processing overhead at end systems and routers, and inefficient firewall processing at the edge of the network. The latter implies that in a backbone environment, the amount of bandwidth consumed by refresh messages and the storage space that is needed to support a large number of flows at a router are too large. We have devel ...

3 Test results of the commercial internet multimedia trials

Mark Baugher, Saib Jarrar

January 1998 ACM SIGCOMM Computer Communication Review, Volume 28 Issue 1

Publisher: ACM Press

Full text available: The pdf(958.81 KB) Additional Information: full citation, abstract, index terms

This paper reports the test results of applications and services from the Commercial Internet Multimedia Trials. The Trials were a twelve-month effort by three companies to evaluate the product readiness of multimedia applications and services in business environments by supporting multimedia services on production IP networks. The test beds were enabled for IP multicast routing; one of the test beds was enabled for RSVP. The results of our RSVP tests and user surveys are reported, and some of i ...

4 Integrated services packet networks with mobile hosts: architecture and performance

Anup Kumar Talukdar, B. R. Badrinath, Arup Acharya

March 1999 Wireless Networks, Volume 5 Issue 2

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(247.85 KB)

This paper considers the support of real-time services to mobile users in an Integrated Services Packet Network. In the currently existing architectures, the service guarantees provided to the mobile hosts are mobility dependent, i.e., mobile hosts experience wide variation in the quality of service and often service disruption when hosts move from one location to another. The network performance degrades significantly when mobile hosts are provided with mobility independent service guarant ...

5 Dynamic reservation multiple access (DRMA): a new multiple access scheme for personal communication systems (PCS)

Xiaoxin Qiu, Victor O. K. Li

June 1996 Wireless Networks, Volume 2 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: pdf(1.04 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

To improve the spectrum efficiency of integrated voice and data services in Personal Communication System (PCS), several reservation-type multiple access schemes, such as Packet Reservation Multiple Access (PRMA), Dynamic Time Division Multiple Access (D-TDMA), Resource Auction Multiple Access (RAMA), etc., have been proposed. PRMA uses the data packet itself to make a channel reservation, and is inefficient in that each unsuccessful reservation wastes one slot. However, it does not have a ...

Report on the 5th IFIP international workshop on quality of service (IWQOS'97)



Oguz Angin, Andrew T. Campbell, Lai-Tee Cheok, Raymond R-F Liao, Koon-Seng Lim, Klara Nahrstedt

July 1997 ACM SIGCOMM Computer Communication Review, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(1.86 MB) Additional Information: full citation, abstract, index terms

This paper presents a summary of the fifth International Workshop on Quality of Service (IWQOS) which was held at Columbia University in May 1997. The goal of this three-day meeting was to foster interaction between researchers active in the area of Quality of Service(QOS) research, to reflect on past experiences and lessons learnt, and to discuss future QOS challenges. To reflect this goal, this year's workshop included a hot program made up of (i) a keynote address on "Programming Telecommunic ...

Fetch directed instruction prefetching

Glenn Reinman, Brad Calder, Todd Austin

November 1999 Proceedings of the 32nd annual ACM/IEEE international symposium on Microarchitecture MICRO 32

Publisher: IEEE Computer Society

Full text available: pdf(1.37 MB) Additional Information: full citation, abstract, references, citings, index Publisher Site

Instruction supply is a crucial component of processor performance. Instruction prefetching has been proposed as a mechanism to help reduce instruction cache misses, which in turn can help increase instruction supply to the processor. In this paper we examine a new instruction prefetch architecture called Fetch Directed Prefetching, and compare it to the performance of next-line prefetching and streaming buffers. This architecture uses a decoupled b ...

Improving the accuracy and performance of memory communication through

Page 3 of 4

renaming

Gary S. Tyson, Todd M. Austin

December 1997 Proceedings of the 30th annual ACM/IEEE international symposium

on Microarchitecture MICRO 30

Publisher: IEEE Computer Society

Full text available: pdf(1.29 MB) Additional Information: full citation, abstract, references, citings, index Publisher Site

As processors continue to exploit more instruction-level parallelism, a greater demand is placed on reducing the effects of memory access latency. In this paper, we introduce a novel modification of the processor pipeline called memory renaming. Memory renaming applies register access techniques to load instructions, reducing the effect of delays caused by the need to calculate effective addresses for the load and all preceding stores before the data can be fetched. Memory renaming allows the pr ...

Keywords: accuracy, address calculation, data dependence speculation, data fetching, data value speculation, delays, execution time, heap segment, instruction loading, instruction-level parallelism, memory access latency, memory communication, memory references, memory renaming, memory segments, performance, processor pipeline, register access techniques, storage allocation, stores

Two issues in reservation establishment

Scott Shenker, Lee Breslau

October 1995 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '95, Volume 25 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.88 MB) terms

This paper addresses two issues related to resource reservation establishment in packet switched networks offering real-time services. The first issue arises out of the natural tension between the local nature of reservations (i.e., they control the service provided on a particular link) and the end-to-end nature of application service requirements. How do reservation establishment protocols enable applications to receive their desired end-toend service? We review the current one-pass and two-p ...

10 A multiple access scheme for multimedia traffic in wireless ATM

Xiaoxin Qiu, Victor O. K. Li, Ji-Her Ju

December 1996 Mobile Networks and Applications, Volume 1 Issue 3

Publisher: Kluwer Academic Publishers

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(514.21 KB) terms

This paper proposes a multiple access scheme for the forthcoming wireless ATM (Asynchronous Transfer Mode) system. Such ATM compatible wireless systems are motivated by the rapidly increasing demand for wireless extensions to broadband networks, which are expected to support mixed broadband services including Constant Bit Rate (CBR), Variable Bit Rate (VBR), and Available Bit Rate (ABR) traffic. Since these different traffics have very different performance requirements, the multiple access ...

11 Providing guaranteed services without per flow management

Ion Stoica, Hui Zhang

August 1999 ACM SIGCOMM Computer Communication Review, Proceedings of the conference on Applications, technologies, architectures, and protocols for computer communication SIGCOMM '99, Volume 29 Issue 4

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(1.72 MB) terms

Existing approaches for providing guaranteed services require routers to manage per flow states and perform per flow operations [9, 21]. Such a stateful network architecture is less scalable and robust than stateless network architectures like the original IP and the recently proposed Diffserv [3]. However, services provided with current stateless solutions, Diffserv included, have lower flexibility, utilization, and/or assurance level as compared to the services that can be ...

12 Putting the fill unit to work: dynamic optimizations for trace cache microprocessors Daniel Holmes Friendly, Sanjay Jeram Patel, Yale N. Patt



November 1998 Proceedings of the 31st annual ACM/IEEE international symposium on Microarchitecture MICRO 31

Publisher: IEEE Computer Society Press

Full text available: ndf(1.90 MB) Additional Information: full citation, references, citings, index terms

13 Design and performance evaluation of an RRA scheme for voice-data channel access in outdoor microcellular environments



Allan C. Cleary, Michael Paterakis

June 1997 Mobile Networks and Applications, Volume 2 Issue 1

Publisher: Kluwer Academic Publishers

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(398.19 KB) terms

In PCS networks, the multiple access problem is characterized by spatially dispersed mobile source terminals sharing a radio channel connected to a fixed base station. In this paper, we design and evaluate a reservation random access (RRA) scheme that multiplexes voice traffic at the talkspurt level to efficiently integrate voice and data traffic in outdoor microcellular environments. The scheme involves partitioning the time frame into two request intervals (voice and data) and an informat ...

14 A distributed computer system for professional audio



D. Anderson, R. Doris, J. Moorer

October 1994 Proceedings of the second ACM international conference on Multimedia **MULTIMEDIA '94**

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index Full text available: pdf(599.89 KB) terms

In professional audio, the transition from analog to digital technology is nearly complete. The more recent shift towards systems based on general-purpose computers has been gradual, because such computers lack the processing and I/O performance needed for professional audio applications. The SonicSystem, a professional digital audio system, solves these problems using DSPs and a specialized file system. We describe the uses and implementation of the SonicSystem.A distributed ver....

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4 Internet mobility 4×4

Stuart Cheshire, Mary Baker

August 1996 ACM SIGCOMM Computer Communication Review, Conference proceedings on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '96, Volume 26 Issue 4

Publisher: ACM Press

Full text available: pdf(208.28 KB)

Additional Information: full citation, abstract, references, citings, index terms

Mobile IP protocols allow mobile hosts to send and receive packets addressed with their home network IP address, regardless of the IP address of their current point of attachment in the Internet. While some recent work in Mobile IP focuses on a couple of

1). Genvery method - bandwidth
specific routing optimizations for sending packets to and from mobile hosts [Joh96] [Mon96], we show that a variety of different optimizations are appropriate in different circumstances. The best choice, which may vary on a connection-by-connecti
exible network support for mobility
hua Zhao, Claude Castelluccia, Mary Baker
tober 1998 Proceedings of the 4th annual ACM/IFEE international conference on

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Mobile computing and networking MobiCom '98

Publisher: ACM Press

Full text available: pdf(1.44 MB) Additional Information: full citation, references, citings, index terms

6 Level II technical support in a distributed computing environment

Tim Leehane September 1996 Proceedings of the 24th annual ACM SIGUCCS conference on User services SIGUCCS '96

Publisher: ACM Press

Full text available: pdf(5.73 MB) Additional Information: full citation, references, index terms

7 Some issues in providing campus-wide electronic mail

R. C. Lehman October 1989 Proceedings of the 17th annual ACM SIGUCCS conference on User Services SIGUCCS '89

Publisher: ACM Press

Full text available: pdf(766.85 KB) Additional Information: full citation, references, index terms

8 Xanalogical structure, needed now more than ever: parallel documents, deep links to

content, deep versioning, and deep re-use

Theodor Holm Nelson

December 1999 ACM Computing Surveys (CSUR)

Publisher: ACM Press

Full text available: pdf(787.72 KB) Additional Information: full citation, references, citings, index terms

E-commerce and computer science education

Yuzhen Ge, Jiangeng Sun

March 2000 ACM SIGCSE Bulletin , Proceedings of the thirty-first SIGCSE technical symposium on Computer science education SIGCSE '00, Volume 32 Issue 1

Publisher: ACM Press

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> Full text available: pdf(492.33 KB) terms

Electronic commerce is gradually changing the way the commerce is conducted. Computer science graduates will need to be prepared for the challenge posed by the increasing demand for professionals who can develop and maintain electronic commerce systems. By examining the standard computer science curriculum, some suggestions are proposed.

10 Is it live or is it Memorex?

Tory Sawyer, Randy Anderson, Gary McCuaig September 1986 Proceedings of the 14th annual ACM SIGUCCS conference on User services: setting the direction SIGUCCS '86

Publisher: ACM Press

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